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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/554,048	10/24/2005	Hans-Juergen Dobschal	P70853US0	8295
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004			EXAMINER	
			BOOSALIS, FANI POLYZOS	
			ART UNIT	PAPER NUMBER
WASIIINGTO	11, DC 20001	2884		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MO	NTHS	01/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/554,048	DOBSCHAL ET AL.			
		Examiner	Art Unit			
	•	Faye Boosalis	2884			
Period fo	The MAILING DATE of this communication apports Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLECTION OF THE MAILING DEPOSION OF THE MAILING	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	the mailing date of this communication.  D (35 U.S.C. § 133).			
Status		•				
1)	Responsive to communication(s) filed on <u>24 C</u>	october 2005				
2a)□	<u></u>	action is non-final.	•			
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits i					
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
•	Claim(s) <u>1-3</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6) Claim(s) <u>1-3</u> is/are rejected.					
<u> </u>	7)∐ Claim(s) is/are objected to. 8)∭ Claim(s) are subject to restriction and/or election requirement.					
ا_ا(٥	Claim(s) are subject to restriction and/o	r election requirement.	·			
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>24 October 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	• •					
	e of References Cited (PTO-892)	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>5/9/06</u> .  6) Other:						

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-3 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1-3, the phrase "especially" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

3. Claims 1-3 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Staib et al. (US 6,492,644 B1).

Regarding claim 1, Staib discloses an arrangement for inspecting objects, especially masks (i.e. filter grid) (131) in microlithography, that are disposed in a vacuum chamber (101); where converting illuminating radiation (108) emitted from the object (102) into a radiation of a higher wavelength; a sensor (332) provided for recording images (col. 9, lines 25-28). The sensor is disposed outside the vacuum chamber (See Fig. 15 and col. 9, lines 46-63) and an image lens (111c)(120) is arranged as a window in the vacuum chamber (col. 4, lines 58-67 and col. 5, lines 1-4). Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Staib 7. et al (US 6,492,644 B1) as applied to claim 1 above, and further in view of Cullman et al (US 6,016,185 A).

Staib et al discloses all of the limitations of the parent claim 1, as described above, However, Staib et al are silent with regards to image lens being hybrid lens. Cullman discloses an imaging system for imaging of an object pattern (i.e. microlithography) comprising hybrid lenses (400)(404) having at least one diffractive Application/Control Number: 10/554,048

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optical element (col. 6, lines 3-12). Therefore, it would have been obvious to a person of ordinary skill in the art to modify Staib et al. to use hybrid lenses for the imaging system so as to increase the diffraction limited resolution.

Regarding claim 3, Cullman discloses an array of lens (i.e. combination of diffractive and refractive optics may be used) channels can be embodied in several ways to meet various repetitive properties (i.e. repetitive patterns) (col. 5, lines 54-61, col. 6, lines 13-18 and 33-43).

### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faye Boosalis whose telephone number is 571-272-2447. The examiner can normally be reached on Monday thru Friday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FB

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